

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Geoffrey Harding

Title: ELECTRON WINDOW FOR A LIQUID METALANODE, LIQUID METAL ANODE, X-RAY EMITTER AND METHOD FOR OPERATING SUCH AN X-RAY EMITTER OF THIS TYPE

Serial No.: 10/599,074

Art Unit: 2882

Filing Date: October 2, 2006

Examiner: YUN, JURIE

Docket No.: 201654

Confirmation No.: 3810

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98.

## REFERENCES

☒ 1. A list of documents on Form PTO-1449 or Substitute together with copies of each identified document (other than U.S. patents and U.S. patent application publications unless required by the Office) and a translation thereof or a concise explanation of each non-English language document or a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

## RELATED CASES

☐ 2. Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 published in the Official Gazette Notice of October 19, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.

This paper is submitted in accordance with:

☐ 3. 37 CFR 1.97(b): [within three months of national, non-CPA filing, prior to first Office Action, on the merits, or prior to first office action after filing an RCE]

☐ 4. 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and

☐ a. The required Certification made in item 6 below; or

☐ b. The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 7 below.

☒ 5. 37 CFR 1.97(d): [on or before issue fee payment]; and

a) The required Certification is stated in item 6 below; and

b) The \$180.00 fee specified in 37 C.F.R. 1.17(p) for submission of this Information Disclosure Statement is authorized in item 7 below.

**[ X ] 6. Certification**

- [ X ] a.** Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- [ ] b.** No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.

**[ X ] 7. Payment of all applicable fees:**

- ☒ Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 090470.
- ☐ Enclosed is a check in the amount of \$\_\_\_\_\_ in payment of all applicable fees associated with the submittal of this Information Disclosure Statement.

Respectfully submitted,

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet  of **Complete if Known**

Application Number	10/599074
Filing Date	10/02/2006
First Named Inventor	Harding, Geoffrey
Art Unit	2882
Examiner Name	Yun, Julie
Attorney Docket Number	201654

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 6,735,283	05-2004	Kutschera et al.	
		US- 6,807,248	10-2004	Mihara et al.	
		US- 5,052,034	09-1991	Schuster, Manfred	
		US- 2,665,390	01-1954	Zunick Michael J et al.	
		US- 6,647,094	11-2003	Harding et al.	
		US- 6,477,234	11-2002	Harding et al.	
		US- 6,560,313	05-2003	Harding et al.	
		US- 6,185,277	02-2001	Harding, Geoffrey	
		US- 2002/0048344	04-2002	Bachmann et al.	
		US- 2005/175153	08-11-2005	Harding et al.	
		US- 5,105,456	04-14-1992	Rand et al.	
		<del>US- 6,560,313</del>	<del>05-06-2003</del>	<del>Harding et al.</del>	
		<del>US- 5,052,034</del>	<del>09-24-1991</del>	<del>Siemens Aktiengesellschaft</del>	
		US- 2003/0058995	03-27-2003	Siemens Aktiengesellschaft	
		US-			
		US-			
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>1</sup> Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		FR741148A	02-04-1933	Tellez-Plasencia		
		DE19900467A1	04-20-2000	Siemens AG		
		EP0584871B	11-20-1996	Tan, Dagangm Or		

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/Julie Yun/

Date  
Considered

09/17/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on this amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet

of

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		DAVID, ET AL.: "Liquid Metal Anode X-Ray Tube," Proceedings of SPIE, vol. 5196, January 2004, pages 432-443, XP002336484, Bellingham, WA, 2004	
		LI PING-WEI, ET AL.: "Applications of Polycapillary X-Ray Optics in Protein Crystallography," Journal of Applied Crystallography, vol. 31, October 1998, pages 806-811, XP0090514	

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/Jurie Yun/

Date

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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